OIPE

Errors on pp. 3-5

RAW SEQUENCE LISTING DATE: 12/12/2002
PATENT APPLICATION: **US/09/276,935C** TIME: 16:44:08

Input Set : **A:\PU3474US 11-02 Seqlist.txt**
Output Set: **N:\CRF4\12122002\I276935C.raw**

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     4 <110> APPLICANT: KLIEWER, Steven A.
     5       JONES, Stacey A.
     6       WILLSON, Timothy M.
     8 <120> TITLE OF INVENTION: AN ORPHAN NUCLEAR RECEPTOR
    11 <130> FILE REFERENCE: PU3474US2
    13 <140> CURRENT APPLICATION NUMBER: 09/276,935C
C--> 14 <141> CURRENT FILING DATE: 2002-11-27
    16 <150> PRIOR APPLICATION NUMBER: 60/079,593
    17 <151> PRIOR FILING DATE: 1998-03-27
    19 <160> NUMBER OF SEQ ID NOS: 18
    21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    23 <210> SEQ ID NO: 1
    24 <211> LENGTH: 20
    25 <212> TYPE: DNA
    26 <213> ORGANISM: Artificial Sequence
    28 <220> FEATURE:
    29 <223> OTHER INFORMATION: Probe
    31 <400> SEQUENCE: 1
    32 ctgctgcgca tccaggacat                                          20
    34 <210> SEQ ID NO: 2
    35 <211> LENGTH: 45
    36 <212> TYPE: DNA
    37 <213> ORGANISM: Artificial Sequence
    39 <220> FEATURE:
    40 <223> OTHER INFORMATION: Probe
    42 <400> SEQUENCE: 2
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    45 <210> SEQ ID NO: 3
    46 <211> LENGTH: 34
    47 <212> TYPE: DNA
    48 <213> ORGANISM: Artificial Sequence
    50 <220> FEATURE:
    51 <223> OTHER INFORMATION: Probe
    53 <400> SEQUENCE: 3
    54 gggtgtgggg gatcctcagc tacctgtgat gccg                          34
    56 <210> SEQ ID NO: 4
    57 <211> LENGTH: 31
    58 <212> TYPE: DNA
    59 <213> ORGANISM: Artificial Sequence
    61 <220> FEATURE:
    62 <223> OTHER INFORMATION: Probe
    64 <400> SEQUENCE: 4
    65 gatcagacag ttcatgaagt tcatctagat c                             31
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RAW SEQUENCE LISTING DATE: 12/12/2002
PATENT APPLICATION: US/09/276,935C TIME: 16:44:08

Input Set : A:\PU3474US 11-02 Seqlist.txt
Output Set: N:\CRF4\12122002\I276935C.raw

<210> SEQ ID NO: 5
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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Probe
<400> SEQUENCE: 5
gatcaatatg aactcaaagg aggtcagtg 29

<210> SEQ ID NO: 6
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Probe
<400> SEQUENCE: 6
gatcaatatg aactcaaagg aggtcagtg 29

<210> SEQ ID NO: 7
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Probe
<400> SEQUENCE: 7
gatcaatatg ttctcaaagg agaacagtg 29

<210> SEQ ID NO: 8
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Probe
<400> SEQUENCE: 8
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<210> SEQ ID NO: 9
<211> LENGTH: 32
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Probe
<400> SEQUENCE: 9
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<210> SEQ ID NO: 10
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Probe
<400> SEQUENCE: 10
Met Lys Lys Gly His His His His His His Gly
1 5 10

RAW SEQUENCE LISTING DATE: 12/12/2002
PATENT APPLICATION: **US/09/276,935C** TIME: 16:44:08

Input Set : **A:\PU3474US 11-02 Seqlist.txt**
Output Set: **N:\CRF4\12122002\I276935C.raw**

must explain genetic source - See error summary sheet item 11

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135 <210> SEQ ID NO: 11
136 <211> LENGTH: 316
137 <212> TYPE: PRT
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Protein
143 <400> SEQUENCE: 11
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146 Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg Met Met
147             20                  25                  30
148 Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr Thr Phe
149         35                  40                  45
150 Ser His Phe Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser Gly Cys
151     50                  55                  60
152 Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala Ala Lys
153 65                  70                  75                  80
154 Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser Leu Gln
155                 85                  90                  95
156 Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp
157             100                 105                 110
158 Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met
159         115                 120                 125
160 Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser
161     130                 135                 140
162 Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly
163 145                 150                 155                 160
164 Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala
165                 165                 170                 175
166 Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu Ser Tyr Cys Leu Glu Asp
167             180                 185                 190
168 Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu Glu Pro Met Leu Lys Phe
169         195                 200                 205
170 His Tyr Met Leu Lys Lys Leu Gln Leu His Glu Glu Glu Tyr Val Leu
171     210                 215                 220
172 Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln
173 225                 230                 235                 240
174 His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu Lys
175                 245                 250                 255
176 Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu Phe
177             260                 265                 270
178 Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala Gln
179         275                 280                 285
180 His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala Thr
181     290                 295                 300
182 Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
183 305                 310                 315
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 242
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RAW SEQUENCE LISTING DATE: 12/12/2002
PATENT APPLICATION: **US/09/276,935C** TIME: 16:44:08

Input Set : **A:\PU3474US 11-02 Seqlist.txt**
Output Set: **N:\CRF4\12122002\I276935C.raw**

188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Protein — Some error
194 <400> SEQUENCE: 12
195 Met Lys Lys Gly Ser Ala Asn Glu Asp Met Pro Val Glu Arg Ile Leu
196 1 5 10 15
197 Glu Ala Glu Leu Ala Val Glu Pro Lys Thr Glu Thr Tyr Val Glu Ala
198 20 25 30
199 Asn Met Gly Leu Asn Pro Ser Ser Pro Asn Asp Pro Val Thr Asn Ile
200 35 40 45
201 Cys Gln Ala Ala Asp Lys Gln Leu Phe Thr Leu Val Glu Trp Ala Lys
202 50 55 60
203 Arg Ile Pro His Phe Ser Glu Leu Pro Leu Asp Asp Gln Val Ile Leu
204 65 70 75 80
205 Leu Arg Ala Gly Trp Asn Glu Leu Leu Ile Ala Ser Phe Ser His Arg
206 85 90 95
207 Ser Ile Ala Val Lys Asp Gly Ile Leu Leu Ala Thr Gly Leu His Val
208 100 105 110
209 His Arg Asn Ser Ala His Ser Ala Gly Val Gly Ala Ile Phe Asp Arg
210 115 120 125
211 Val Leu Thr Glu Leu Val Ser Lys Met Arg Asp Met Gln Met Asp Lys
212 130 135 140
213 Thr Glu Leu Gly Cys Leu Arg Ala Ile Val Leu Phe Asn Pro Asp Ser
214 145 150 155 160
215 Lys Gly Leu Ser Asn Pro Ala Glu Val Glu Ala Leu Arg Glu Lys Val
216 165 170 175
217 Tyr Ala Ser Leu Glu Ala Tyr Cys Lys His Lys Tyr Pro Glu Gln Pro
218 180 185 190
219 Gly Arg Phe Ala Lys Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile
220 195 200 205
221 Gly Leu Lys Cys Leu Glu His Leu Phe Phe Phe Lys Leu Ile Gly Asp
222 210 215 220
223 Thr Pro Ile Asp Thr Phe Leu Met Glu Met Leu Glu Ala Pro His Gln
224 225 230 235 240
225 Met Thr
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230 <211> LENGTH: 2146
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Probe
237 <400> SEQUENCE: 13
238 tgaaatatag gtgagagaca agattgtctc atatccgggg aaatcataac ctatgactag 60
239 gacgggaaga ggaagcactg cctttacttc agtgggaatc tcggcctcag cctgcaagcc 120
240 aagtgttcac agtgagaaaa gcaagagaat aagctaatac tcctgtcctg aacaaggcag 180
241 cggctccttg gtaaagctac tccttgatcg atcctttgca ccggattgtt caaagtggac 240
242 cccaggggag aagtcggagc aaagaactta ccaccaagca gtccaagagg cccagaagca 300
243 aacctggagg tgagacccaa agaaagctgg aaccatgctg actttgtaca ctgtgaggac 360

RAW SEQUENCE LISTING DATE: 12/12/2002
PATENT APPLICATION: US/09/276,935C TIME: 16:44:08

Input Set : A:\PU3474US 11-02 Seqlist.txt
Output Set: N:\CRF4\12122002\I276935C.raw

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244 acagagtctg ttcctggaaa gcccagtgtc aacgcagatg aggaagtcgg aggtccccaa 420
245 atctgccgtg tatgtgggga caaggccact ggctatcact tcaatgtcat gacatgtgaa 480
246 ggatgcaagg gctttttcag gagggccatg aaacgcaacg cccggctgag gtgccccttc 540
247 cggaagggcg cctgcgagat cacccggaag acccggcgac agtgccaggc ctgccgcctg 600
248 cgcaagtgcc tggagagcgg catgaagaag gagatgatca tgtccgacga ggccgtggag 660
249 gagaggcggg ccttgatcaa gcggaagaaa agtgaacgga cagggactca gccactggga 720
250 gtgcaggggc tgacagagga gcagcggatg atgatcaggg agctgatgga cgctcagatg 780
251 aaaacctttg acactacctt ctcccatttc aagaatttcc ggctgccagg ggtgcttagc 840
252 agtggctgcg agttgccaga gtctctgcag gccccatcga gggaagaagc tgccaagtgg 900
253 agccaggtcc ggaaagatct gtgctctttg aaggtctctc tgcagctgcg gggggaggat 960
254 ggcagtgtct ggaactacaa acccccagcc gacagtggcg ggaaagagat cttctccctg 1020
255 ctgccccaca tggctgacat gtcaacctac atgttcaaag gcatcatcag ctttgccaaa 1080
256 gtcatctcct acttcaggga cttgcccatc gaggaccaga tctccctgct gaaggggcc 1140
257 gctttcgagc tgtgtcaact gagattcaac acagtgttca acgcggagac tggaacctgg 1200
258 gagtgtggcc ggctgtccta ctgcttggaa gacactgcag gtggcttcca gcaacttcta 1260
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260 tatgtgctga tgcaggccat ctccctcttc tccccagacc gcccaggtgt gctgcagcac 1380
261 cgcgtggtgg accagctgca ggagcaattc gccattactc tgaagtccta cattgaatgc 1440
262 aatcggcccc agcctgctca taggttcttg ttcctgaaga tcatggctat gctcaccgag 1500
263 ctccgcagca tcaatgctca gcacacccag cggctgctgc gcatccagga catacacccc 1560
264 tttgctacgc ccctcatgca ggagttgttc ggcatcacag gtagctgagc ggctgccctt 1620
265 gggtgacacc tccgagaggc agccagaccc agagccctct gagccgccac tcccgggcca 1680
266 agacagatgg acactgccaa gagccgacaa tgccctgctg gcctgtctcc ctagggaatt 1740
267 cctgctatga cagctggcta gcattcctca ggaaggacat gggtgccccc caccccagt 1800
268 tcagtctgta gggagtgaag ccacagactc ttacgtggag agtgcactga cctgtaggtc 1860
269 aggaccatca gagaggcaag gttgcccttt ccttttaaaa ggccctgtgg tctggggaga 1920
270 aatccctcag atcccactaa agtgtcaagg tgtggaaggg accaagcgac caaggatagg 1980
271 ccatctgggg tctatgccca catacccacg tttgttcgct tcctgagtct tttcattgct 2040
272 acctctaata gtcctgtctc ccacttccca ctcgttcccc tcctcttccg agctgctttg 2100
273 tgggctccag gcctgtactc atcggcaggt gcatgagtat ctgtgg 2146
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275 <210> SEQ ID NO: 14
276 <211> LENGTH: 434
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Protein — Same thing

283 <400> SEQUENCE: 14

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284 Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
285  1               5                  10                  15
286 Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
287             20                  25                  30
288 Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
289         35                  40                  45
290 Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
291     50                  55                  60
292 Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
293 65                  70                  75                  80
294 Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
295                 85                  90                  95
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VERIFICATION SUMMARY DATE: 12/12/2002
PATENT APPLICATION: **US/09/276,935C** TIME: 16:44:09

Input Set : **A:\PU3474US 11-02 Seqlist.txt**
Output Set: **N:\CRF4\12122002\I276935C.raw**

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

OIPE

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/276,935C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11 ✓	Use of <220>	Sequence(s) 11,12,14 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

BIOTECHNOLOGY
SYSTEMS
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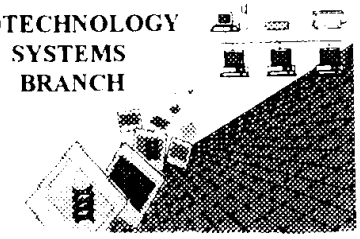

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

RECEIVED
DEC 30 2002
TECH CENTER 1600/29

Application Serial Number: 09/276,350
Source: CIP2
Date Processed by STIC: 12/12/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01 29 2002